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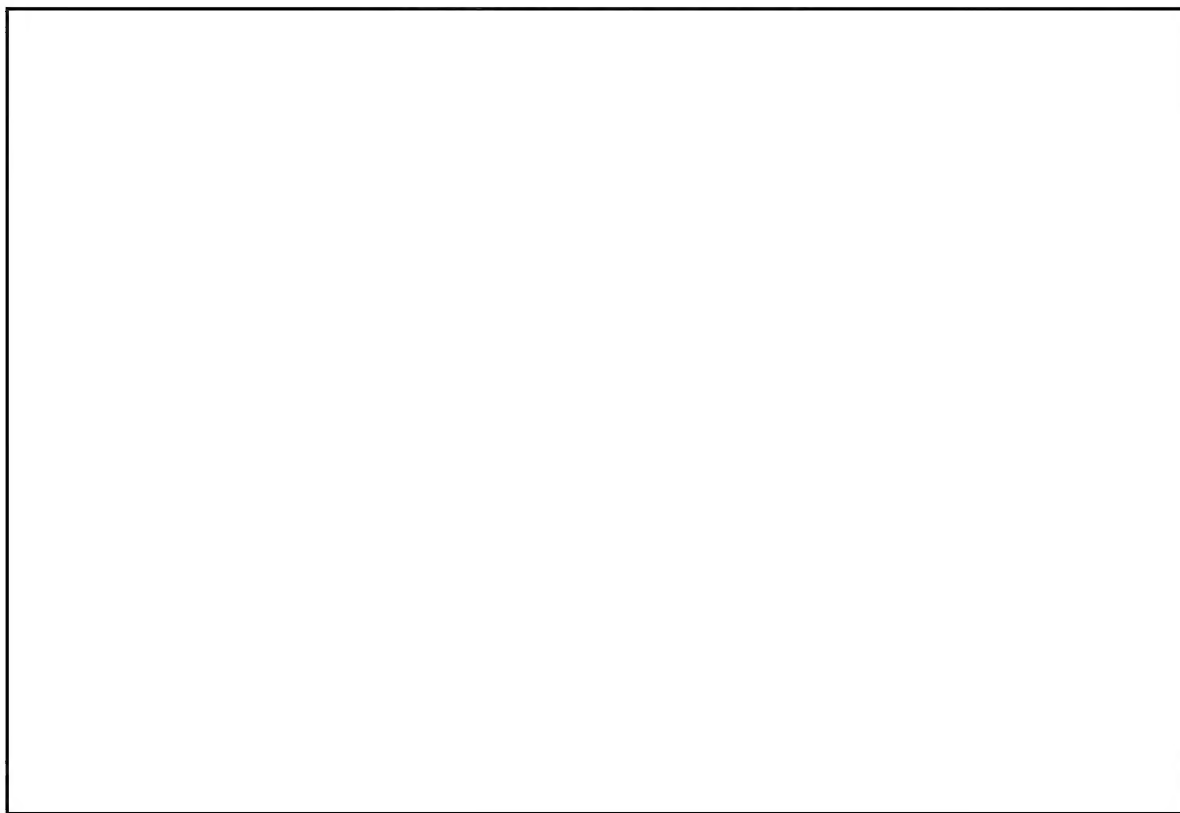
EXRAND-M-30-70
24 February 1970

COMIREX SUBCOMMITTEE
FOR
EXPLOITATION RESEARCH AND DEVELOPMENT

Minutes of Meeting Held in IAS Conference Room
0900-1130, Wednesday, 18 February 1970

Declass Review by
NIMA/DOD

MEMBERS AND STAFF PRESENT



1. Approval of Minutes.

The minutes were approved as corrected as follows: Attachment III, the trip scheduled for September was deleted. On 19-20 April the EXRAND

GROUP 1: EXCLUDED FROM
AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

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EXRAND-M-30-70

members will go to Westover AFB, Mass. On 25-26 May the trip to [] was cancelled and a trip to Omaha, Neb., SAC for [] and Reconnaissance Systems was substituted.

2. Announcements.

a. [] announced that the members were invited to attend the COMIREX Meeting on 19 February to hear [] briefing on equipment development. [] stated that it will follow the same format as the briefing he gave at the last EXRAND meeting.

b. [] announced that there would be a Color Perception Briefing given on 10 March at 1430 in the NPIC Auditorium by [] of the Bureau of Standards. The presentation will cover the function of the human system in perceiving color. The members were asked to provide the names of those interested in attending to []

c. [] announced that he would like to see more individual participation on the part of the members in submitting items for the Agenda.

3. Old Business.

a. [] read the proposed response to be sent to the Chairman of EXSUBCOM on the Community potentials of development of a P.I. rapid access, selective target printer. [] suggested that the Community could not guarantee complete success of the development; the members then agreed that although this was true, the Community was well prepared and capable to meet the challenge of such a development.

b. [] passed out a memorandum entitled "EXRAND Community Projects Related to P.I. Reproduction Capability" (attached). This lists the items under development that were identified as being similar to the P.I. selective target printer outlined in the EXSUBCOM staff study requirement suggested to EXRAND.

c. [] also gave the latest status of the 1540 light tables. The delivery date for the prototype table is now delayed about one week

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EXRAND-M-30-70

(now estimated to be the first week in March). He said that the light table met specifications and was developing very nicely. It appeared now that the production scheduled will be consonant with the timing of the arrival of the new system materials. A rough price range is [redacted] per unit based upon a large joint procurement venture. He said that he will have firmer prices on the different model configurations shortly. With regard to Community joint procurement, [redacted] will provide the detailed schedule and proposed allocation of production to EXRAND members on 18 March. Mr. [redacted] to provide details of the Community requirements for these tables for FY 70-72 before the end of the month.

d. [redacted] briefly discussed the EXRAND visits for the year. (1) It was decided that the trip to Reston will take place on 18 March after the EXRAND meeting. [redacted] will provide for the permission to visit and the program while there. (2) The trip to Westover was separated from the trip to SAC. The members will visit Westover on 19-20 April and SAC on 25 May. [redacted] will make arrangements for permission to visit Westover and [redacted] will obtain permission for the visit to SAC.

e. [redacted] outlined some of the projects to be seen or discussed at Westover, such as:

- [redacted] Dry Silver Processor
- [redacted] RS Prototype Processor
- Status of the new continuous Flat Bed Printer (Air Gate)
- Status of the Viscous Processor Project
- Efforts in the Selective Target/Area Printing

f. With regard to the visit to SAC, it was mentioned that we need to understand the potential interface of [redacted] ephemeris data distribution, cloud screening and selective target/area printing, etc. [redacted] then suggested that it might be wise for the members to be briefed on the [redacted] system before their trip to SAC. It was decided that this briefing could be given at the 20 May EXRAND meeting. [redacted] will arrange for the briefing.

g. [redacted] gave a brief status of the Procurement Coordinating Team. He introduced [redacted] who is in from [redacted] and who would also be attending the PCT meeting in the afternoon.

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EXRAND-M-30-70

4. New Business.

25X1 a. [] handed out copies of the EXRAND Terms of Reference, Objectives, and Directory of Participants for updating as soon as possible.

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25X1 b. [] stated that significant reports are coming out of the CCB which should be seen by EXRAND members, specifically the:

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(1) Viscous module for the [] Processor which provides for dual gamma at fixed field installations.

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(2) Detection and recognition phenomena associated with the photographic image.

25X1 c. [] also pointed out that EXRAND in reality has representation at the CCB since he and other EXRAND members attend the meetings. He stated that he would provide a new listing and abstract of each of the CCB projects to concerned members of EXRAND soon. After each meeting of CCB, from now on, he would provide a rundown on pertinent equipment/projects taken up at the CCB meeting to EXRAND.

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25X1 d. Silver recovery was discussed to some length. [] stated that the [] film stripper project did not prove successful and is now back on the "drawing board." [] stated that [] has a project which may be successful in providing a market for the used Estar Base film.

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25X1 e. It was suggested that the operation of the NPIC Breakdown (Tiger) Team be briefed at EXRAND at the 18 March meeting.

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25X1 f. [] requested that each member review the R&D categories of the TTT Annual Report and those listed in his briefing list (see attachment V, item VIII of EXRAND-M-28-70). He recommended that the category format be adopted as suggested in that attachment.

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5. Special Briefing.

25X1 [] Chief, RED/TSSG/NPIC, introduced []
25X1 [] TSSG/RED for a briefing on the Targeting Indexing Device:

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EXRAND-M-30-70

25X1 A NPIC Project under the Automatic Target Recognition Program.
[redacted] stated that the briefing should clarify a number of
misconceptions attributed to the TID as to what it could and could
not do. (An outline of the briefing is attached.)

[redacted]

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Executive Secretary, EXRAND

Attachments:
As stated

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Attachment I

MEMORANDUM FOR: Chairman, EXRAND

SUBJECT : EXRAND Community Projects Related to P. I.
Reproduction Capability

REFERENCE : COMIREX-M-77, 14 August 1969, Tab E

1. The reference concerns the EXSUBCOM recommendation that COMIREX "request EXRAND to investigate the feasibility of developing equipment which provides imagery interpreters an individual capability to produce exploitation quality selective target prints."

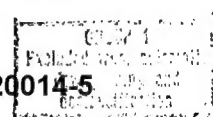
2. Upon submission of the Technical Task Team response to this request (NPIC/TSSG/EXRAND Memorandum re subject dated 21 January 1970), EXRAND members requested a listing of present community R&D projects related to the EXSUBCOM recommendation. The following paragraph provides such a list.

3. Items are listed on the basis of their entry in the second annual Technical Task Team Report:

Consolidated R&D Project List, FY-70 and FY-71

<u>Page No.</u>	<u>Title</u>	<u>Sponsor</u>
2	<u>Dry Process Reader Printer</u>	USN
3	<u>Automatic Stereogram Printer</u>	NPIC
23	<u>Investigation of Photo-Electrolytic Imaging Process</u>	USA
23	<u>Investigation and Evaluation of New Materials</u>	USA
23	<u>Diazo Contact Printer</u>	USAF
23	<u>Dry Silver Contact Printer</u>	USAF
23	<u>Variscan Printer</u>	USAF

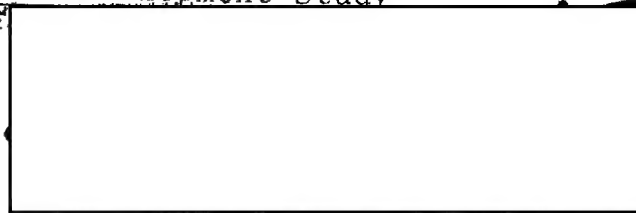
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SUBJECT: EXRAND Community Projects Related to P. I.
Reproduction Capability

<u>Page No.</u>	<u>Title</u>	<u>Sponsor</u>
24	<u>Modification of Diazo Printer</u>	NPIC
24	<u>Enlarger/Reader/Printer</u>	NPIC
25	<u>Dry Silver Material Research</u>	NPIC
26	<u>Chip System Development Study</u>	NPIC



Chairman, Technical Task Team

Distribution:
Cy - EXRAND members

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Attachment II

NPIC Target Indexing Device

- I. Objective - Automatic Determination of Cloud Cover by: (a) target location and (b) by full frame divisions.
- II. Characteristics of Cloud Screening Systems.
- III. Objective #1 - Cloud Screening by target locations.
- IV. Objective #2 - Library Indexing, or Full Frame Cloud Cover Analysis.
- V. Diffraction Pattern Sampler
- VI. Optical Cloud Screening Systems
- VII. Diffraction Pattern Clue Set
- VIII. Clue Extractor
- IX. Diffraction Patterns - Same Target
- X. Automatic Cloud Screening - Selected Target Analysis
- XI. Automatic Cloud Screening - Full Frame Analysis
- XII. T&E Schedule for TID
- XIII. Electronic Cloud Screener
- XIV. Electronic Cloud Screening Systems
- XV. Typical Clues - Electronic Extraction

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